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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,882	08/17/2005	Michael Lyne	GJE-7477	1606
23557 759 SALIWANCHIK	02/21/200 LLOYD & SALIW	EXAMINER		
A PROFESSIONAL ASSOCIATION PO BOX 142950 GAINESVILLE, FL 32614-2950			KIM, JENNIFER M	
			ART UNIT	PAPER NUMBER
			1617	
SHORTENED STATUTORY PI	ERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTI	3 MONTHS 02/21/2007 PARE		PER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/517,882	LYNE, MICHAEL				
Office Action Summary	Examiner	Art Unit				
	Jennifer Kim	1617				
The MAILING DATE of this communication app		<u> </u>				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tirn ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
	2/2006					
' =	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,					
4)⊠ Claim(s) <u>2-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2-9</u> is/are rejected.						
7) Claim(s) is/are objected to.	·					
8) Claim(s) are subject to restriction and/or	election requirement.	•				
Application Papers						
9) The specification is objected to by the Examiner	•					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	or the documed dopied her redering					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
2) Notice of Dratisperson's Patent Drawing Review (P10-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

DETAILED ACTION

The amendment filed November 13, 2006 have been received and entered into

the application.

Action Summary

The objection of specification because of the minor informalities set forth in last

Office Action is hereby expressly withdrawn in view of Applicant's amendment.

The rejection of Claims 2 and 3 under 35 U.S.C. 102(b) as being anticipated by

Fasmer et al. (1987) of record is hereby expressly withdrawn in view of Applicant's

amendment.

The rejection of Claim 4 under 35 U.S.C. 103(a) as being unpatentable over

Fasmer et al. (1987) of record in view of Keller et al. (U.S.Patent No. 6,585,958 B1) is

hereby expressly withdrawn in view of Applicant's amendment.

Applicant's amendment necessitate the new ground(s) of rejection made in this

Office Action as follows:

Claim Rejections - 35 USC § 112

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The term "aqueous" in claims 2, 4 and 5 lacks literal support in the specification as originally filed. This is a New Matter rejection.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 9 recites the limitation "daily dose" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over . Fasmer et al. (1987) of record in view of Williams et al. (WO02/00195 A2) of record.

Fasmer et al. teach the antinociceptive effects of (+)-nefopam in mice. (abstract).

Fasmer et al. teach that the antinociceptive activity of (+)-nefopam was significantly more potent than (-)-nefopam. (abstract). Fasmer et al. teach that (+)-nefopam was dissolved in 0.9% NaCl. (page 508, under materials and methods). Fasmer's teaching of 0.9% NaCl to dissolve (+)-nefopam anticipates the claimed limitation of the "solubility enhancer" set forth in claim 3 because NaCl combined with (+)-nefopam promotes the dissolution of (+)-nefopam.

Fasmer et al. teach the antinociceptive effects of (+)-nefopam in mice. (abstract). Fasmer et al. teach that the antinociceptive activity of (+)-nefopam was significantly more potent than (-)-nefopam. (abstract). Fasmer et al. teach that (+)-nefopam was dissolved in 0.9% NaCl. (page 508, under materials and methods). Fasmer et al. teach that nefopam is an effective analgesic in man and its **analgesic activity** can also be demonstrated in some of **tests of nociception** in animals. (page 508, left-hand column). Fasmer et al. teach in conclusion, that (+)-nefopam is more potent as an **analgesic** than the (-) enantiomer. (page 511, right-hand, column, 3rd full paragraph).

Fasmer et al. do not teach the intranasal administration for treatment of pain set forth in claims 4, pain associated with cancer set forth in claim 8, the amount of (+)

nefopam set forth in claim 9, the other agents set forth in claim 6, and the pH ranges set forth in claims 2,4 and 7.

Williams et al. teach that the composition comprising **nefopam** is suitable for application to the mucous membrane of the nasal cavity to relieve pain. (page 12, line 16, abstract). Williams et al. teach that the **painful condition** and symptoms are endured by almost all **chemotherapy** patients. (page 1, lines 23-25). Williams et al. teach that the composition is preferably applied to a mucosal surface of the subject's nasal cavity. (page 3, lines 10-13). Williams et al. teach that the **pH** of the composition is within the range of from about **2 to about 9**, more preferably, about **3 to 7**, even more preferably **about 4 to about 5**, and optimally about **4.5**. (page 10, lines 26-28). These ranges encompasses and/or overlap and/or within Applicant's pH set forth in claims 2, 4 and 7. Williams et al. teach that **NMDA receptor antagonists**, a **non-steroidal anti-inflammatory agents**, **local anesthetics**, and **narcotic analgesics (opioids)** can be included in the composition and also suitable for application to nasal mucous cavity. (page 4, page 11, examples).

It would have been obvious to one of ordinary skill in the art to modify the (+) nefopam formulation taught by Fasmer et al. to intranasal administration for treatment of pain because Williams et al. teach that nefopam comprising formulation in general are preferably applied directly to nasal cavity. One would have been motivated to make such a modification in order to employ preferred route of administration of nefopam known in the art as taught by Williams et al. It would have been obvious to one of ordinary skill in the art to adjust the pH of (+) nefopam formulation within about 3 to 7,

even more preferably about 4 to 5 because Williams et al. teach the pH of nefopam suitable for intranasal application. One would have been motivated to optimize the pH of (+) nefopam suitable for intranasal application taught by Williams et al. in order to avoid any irritation in nasal cavity. It would have been obvious to one of ordinary skill in the art to further include other agents such as NMDA antagonist, non-steroidal antiinflammatory agents set forth in claim 6, because these agents are also effective for the treatment of pain and suitable for the nasal mucosal application as taught by Williams et al. One of ordinary skill in the would have been motivated to combine the agents set forth in claim 6, in order to achieve at least an additive effect in treatment of pain. It would have been obvious to one of ordinary skill in the art that Fasmer et al's (+) nefopam formulation as modified by Williams et al. is effective to treat pain including pain associated with cancer because Fasmer et al. teach that (+) nefopam is more potent as an analgesic than its enantiomer and because almost all cancer patients endure pain. There is a reasonable expectation of successfully treating pain associated with cancer with (+) nefopam nasal composition because (+) nefopam possess not only effective analgesic property but significantly more potent than its enantiomer, (-) nefopam, in man. Further, the nasal applicability of nefopam in general is well taught by Williams et al. with its suitable pH. The amount of (+) nefopam to be employed set forth in claim 9 is obvious because Fasmer teaches that nefopam is an effective analgesic agent in man. One would have been motivated to optimize the effective analgesic amounts in man as taught by Fasmer et al.

For these reasons the claimed subject matter is deemed to fail to patentably distinguish over the state of the art as represented by the cited references. The claims are therefore properly rejected under 35 U.S.C. 103.

Response to Arguments

Applicant's arguments filed November 13, 2006 have been fully considered but they are not persuasive. Applicant argues that there is no reason to expect that the composition used by Fasmer et al. would be suitable for intranasal administration because amended claim 2 requires the composition to be an aqueous solution with a pH between 4 to 7 but Fasmer et al. make no mention whatsoever of the pH of the composition used. This is not persuasive because pH of nefopam for intranasal use is well known in the art as taught by Williams et al. One of ordinary skill in the art would have been motivated to formulate (+) nefopam composition its most preferred route of administration as taught by Williams et al. within suitable range of pH well taught by Williams et al. Applicant's argue that Fasmer et al. do not explicitly disclose that the compositions used are aqueous solutions but rather just state that the nefopam is dissolved in 0.9% NaCl. This is not persuasive because Applicants too, do not explicitly disclose the term "aqueous" in the instant specification as originally filed and that NaCl 0.9% is well known commercially available (saline) and well known in aqueous formulation. Thus, the claims fail to patentably distinguish over the state of the art as represented by the cited references.

None of the claims are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Kim whose telephone number is 571-272-0628. The examiner can normally be reached on Monday through Friday 6:30 am to 3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sreenivasan Padmanabhan Supervisory Primary Examiner

Art Unit 1617